

Message

From: Chern, Laura A - DNR [Laura.Chern@wisconsin.gov]
Sent: 4/10/2018 5:44:28 PM
To: Burdett, Cheryl [burdett.cheryl@epa.gov]
CC: Johnson, Dave M - DNR [Dave.Johnson@wisconsin.gov]; Austin, Brian P - DNR [Brian.Austin@wisconsin.gov]; Rheineck, Bruce D - DNR [BruceD.Rheineck@wisconsin.gov]
Subject: CSD
Attachments: CSD L and M .JPG; County roads CSD.JPG

Hi Cheryl,

- 1) The attached picture shows "Nested wells L and M." These wells were to be constructed upgradient of irrigated field RDO 12. We have wells downgradient of the field because they are the upgradient wells for the CSD production site. DNR reached a settlement with the dairy which allowed CSD to modify their NMP instead of constructing L and M. A geoprobe sample in the right of way or on county forest land north and west of the dairy would help DNR determine groundwater quality upgradient of that field. The cross roads are 22 nd Ave N and 3 rd St E. The second picture shows the road and forested area which I believe is owned by Juneau County.
- 2) We don't require permits for constructing geoprobe boreholes unless they are going to be open for more than 3 days. Here is a link to NR 141 Wis. Adm Code (http://docs.legis.wisconsin.gov/code/admin_code/nr/100/141.pdf) . Please see section NR 141.25. You will need to submit abandonment forms to me or Dave Johnson, copied on this email. Dave can answer questions on well construction and abandonment. His phone number is 608-261-6421. He suggested that you record the information on our monitoring well construction form in a spreadsheet so you and we will have location data, well depth and boring log information. Here is the link to groundwater monitoring construction forms. Filling and Sealing 3300-005 must be sent to us. We would like the information provided on 4400-89, 4400-113A and 4400-122 if possible (<http://dnr.wi.gov/topic/Groundwater/forms.html>) .
- 3) For permission to inject tracers, you need to contact Brian Austin also copied here. Brian's number is 608-266-3415. Brian has worked with tracers in sandy aquifers and may be able to make some suggestions on this project.
- 4) The horizontal groundwater velocity at the production site is between 300 and 400 feet per year. The hydraulic conductivity is high, about 200 ft/day but the groundwater gradient is very low, only about 0.0016.

Good Luck,
Laura Chern

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Laura Chern P.G.

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